

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P563038

Luminaire Tested: **SQ4-PC3-125U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563038
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

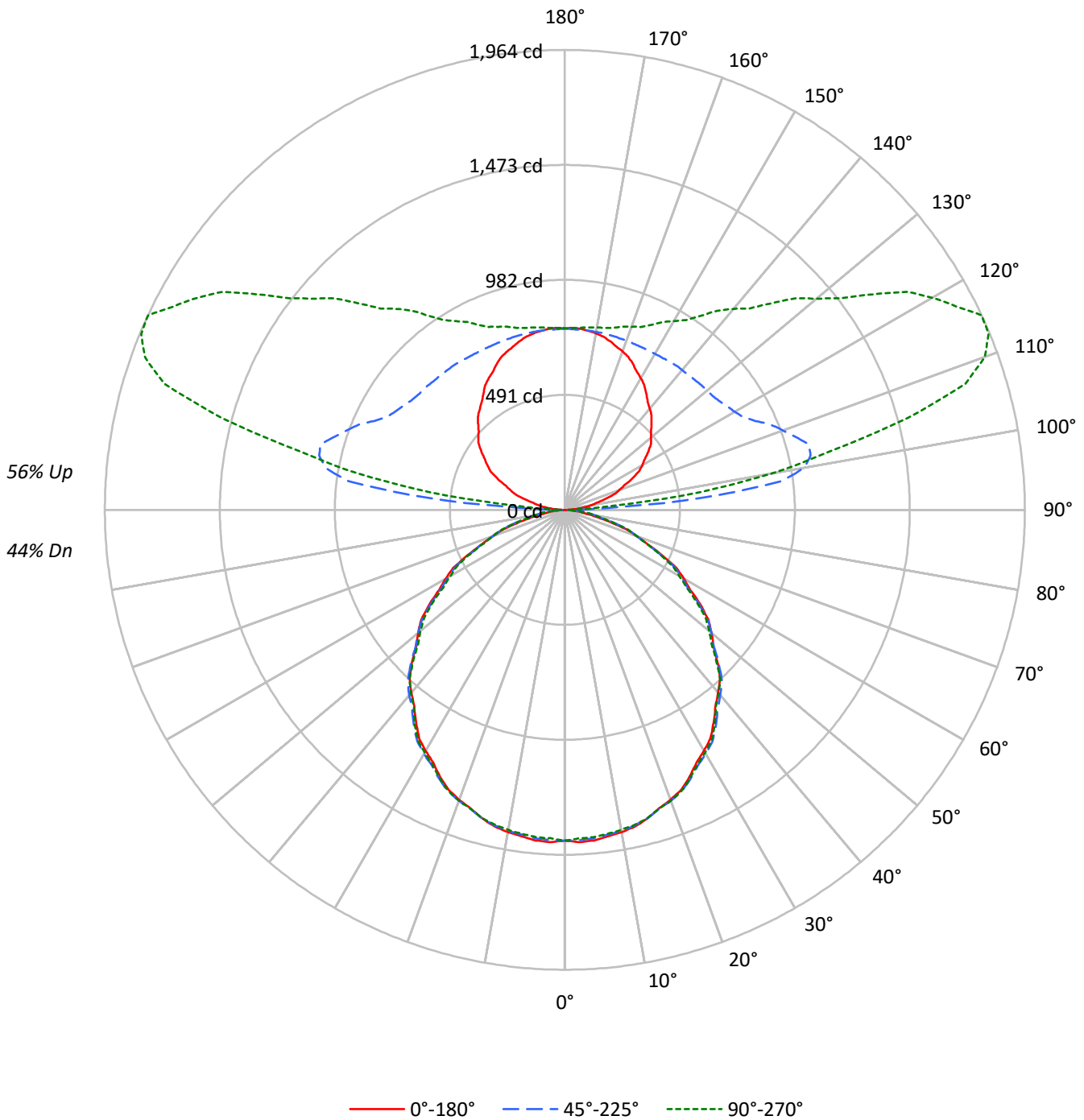
Lumens per Lamp: N/A
Luminaire Lumens: 8855.1 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P563038
CATALOG NUMBER: SQ4-PC3-125U-100D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563038

CATALOG NUMBER: SQ4-PC3-125U-100D-835-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13028	13028	13028
5°	13127	13042	12994
10°	13094	13034	12997
15°	13026	13026	13013
20°	12941	12979	12979
25°	12818	12911	12872
30°	12662	12815	12760
35°	12474	12665	12576
40°	12268	12440	12315
45°	12044	12131	11943
50°	11730	11730	11542
55°	11358	11210	11043
60°	10809	10592	10424
65°	9990	9791	9706
70°	8748	8818	8783
75°	7037	7785	7832
80°	5000	6599	6668
85°	3049	5536	5536



TEST NUMBER: P563038

CATALOG NUMBER: SQ4-PC3-125U-100D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.5
10°-20°	383.5	4.3
20°-30°	580.8	6.6
30°-40°	696.3	7.9
40°-50°	710.0	8.0
50°-60°	619.8	7.0
60°-70°	443.7	5.0
70°-80°	228.5	2.6
80°-90°	59.6	0.7
90°-100°	362.3	4.1
100°-110°	975.9	11.0
110°-120°	1024.2	11.6
120°-130°	831.1	9.4
130°-140°	651.8	7.4
140°-150°	500.4	5.7
150°-160°	359.8	4.1
160°-170°	219.8	2.5
170°-180°	74.1	0.8
0°-30°	1097.9	12.4
0°-40°	1794.2	20.3
0°-60°	3123.9	35.3
0°-90°	3855.8	43.5
90°-120°	2362.3	26.7
90°-150°	4345.6	49.1
90°-180°	4999.0	56.5
0°-180°	8855.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1417	1403	1408	1404	1403	135
15°	1364	1352	1364	1364	1362	385
25°	1259	1250	1268	1264	1264	579
35°	1108	1105	1124	1117	1117	693
45°	923	921	930	918	915	711
55°	706	697	697	686	686	629
65°	458	447	448	445	445	453
75°	197	206	218	220	220	213
85°	29	44	52	54	52	39
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	



TEST NUMBER: P563038

CATALOG NUMBER: SQ4-PC3-125U-100D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1412.1	1412.1	1412.1	1412.1	1412.1
2.5°	1420.5	1408.2	1412.1	1408.9	1403.8
5°	1417.4	1403.3	1408.2	1404.3	1403.0
7.5°	1407.2	1393.1	1399.6	1396.9	1395.7
10°	1397.7	1383.7	1391.2	1388.6	1387.3
12.5°	1385.2	1372.2	1380.7	1378.1	1377.9
15°	1363.7	1352.2	1363.7	1363.7	1362.4
17.5°	1336.8	1326.3	1338.6	1339.4	1338.6
20°	1318.0	1306.5	1321.9	1320.6	1321.9
22.5°	1295.0	1285.5	1302.0	1298.7	1299.9
25°	1259.1	1250.2	1268.3	1264.4	1264.4
27.5°	1216.8	1210.4	1230.1	1225.9	1225.9
30°	1188.5	1182.1	1202.9	1197.7	1197.7
32.5°	1157.2	1152.8	1172.6	1166.3	1166.3
35°	1107.5	1104.9	1124.5	1116.6	1116.6
37.5°	1056.2	1053.9	1071.6	1062.2	1059.1
40°	1018.6	1017.3	1032.9	1022.5	1022.5
42.5°	980.9	979.6	993.2	980.6	980.6
45°	923.1	920.6	929.7	917.8	915.3
47.5°	860.1	857.5	863.2	850.4	849.1
50°	817.2	814.6	817.2	805.4	804.1
52.5°	773.3	768.7	769.1	757.3	757.1
55°	706.1	697.1	696.9	686.5	686.5
57.5°	634.9	623.2	624.2	615.3	614.0
60°	585.8	573.0	574.0	566.1	564.9
62.5°	537.7	522.8	525.9	517.0	516.7
65°	457.6	447.4	448.5	444.6	444.6
67.5°	380.8	371.3	378.1	375.0	374.7
70°	324.3	317.9	326.9	326.9	325.6
72.5°	272.0	271.7	282.9	283.0	283.7
75°	197.4	206.4	218.4	219.7	219.7
77.5°	131.8	147.7	160.8	161.3	161.1
80°	94.1	112.0	124.2	126.8	125.5
82.5°	63.8	82.7	92.8	95.4	94.1
85°	28.8	44.1	52.3	53.6	52.3
87.5°	8.8	18.7	23.3	23.4	21.4
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



TEST NUMBER: P563038

CATALOG NUMBER: SQ4-PC3-125U-100D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)